



P4/10

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,634

DATE: 08/26/2002

TIME: 13:42:06

Input Set : A:\pf0738usn\_seqlist.txt

Output Set: N:\CRF3\08262002\J070634.raw

ENTERED

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5 <110> APPLICANT: INCYTE GENOMICS, INC.
6     YUE, Henry
7     HILLMAN, Jennifer L.
8     TANG, Y. Tom
9     BAUGHN, Mariah R.
10    LU, Dyung Aina M.
11    AZIMAZAI, Yalda
13 <120> TITLE OF INVENTION: HUMAN HYDROLYTIC ENZYMES
15 <130> FILE REFERENCE: PF-0738 PCT
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/070,634
C--> 18 <141> CURRENT FILING DATE: 2002-08-26
20 <150> PRIOR APPLICATION NUMBER: 60/151,819
21 <151> PRIOR FILING DATE: 1999-09-01
23 <160> NUMBER OF SEQ ID NOS: 28
25 <170> SOFTWARE: PERL Program
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 288
29 <212> TYPE: PRT
30 <213> ORGANISM: Homo sapiens
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <223> OTHER INFORMATION: Incyte ID No: 1659002CD1
36 <400> SEQUENCE: 1
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38 1 5 10 15
39 Val Arg Val Leu Gly Cys Asn Pro Gly Pro Met Thr Leu Gln Gly
40 20 25 30
41 Thr Asn Thr Tyr Leu Val Gly Thr Gly Pro Arg Arg Ile Leu Ile
42 35 40 45
43 Asp Thr Gly Glu Pro Ala Ile Pro Glu Tyr Ile Ser Cys Leu Lys
44 50 55 60
45 Gln Ala Leu Thr Glu Phe Asn Thr Ala Ile Gln Glu Ile Val Val
46 65 70 75
47 Thr His Trp His Arg Asp His Ser Gly Gly Ile Gly Asp Ile Cys
48 80 85 90
49 Lys Ser Ile Asn Asn Asp Thr Thr Tyr Cys Ile Lys Lys Leu Pro
50 95 100 105
51 Arg Asn Pro Gln Arg Glu Glu Ile Ile Gly Asn Gly Glu Gln
52 110 115 120
53 Tyr Val Tyr Leu Lys Asp Gly Asp Val Ile Lys Thr Glu Gly Ala
54 125 130 135
55 Thr Leu Arg Val Leu Tyr Thr Pro Gly His Thr Asp Asp His Met
56 140 145 150

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57 Ala Leu Leu Leu Glu Glu Glu Asn Ala Ile Phe Ser Gly Asp Cys
58                               155           160           165
59 Ile Leu Gly Glu Gly Thr Thr Val Phe Glu Asp Leu Tyr Asp Tyr
60                               170           175           180
61 Met Asn Ser Leu Lys Glu Leu Leu Lys Ile Lys Ala Asp Ile Ile
62                               185           190           195
63 Tyr Pro Gly His Gly Pro Val Ile His Asn Ala Glu Ala Lys Ile
64                               200           205           210
65 Gln Gln Tyr Ile Ser His Arg Asn Ile Arg Glu Gln Gln Ile Leu
66                               215           220           225
67 Thr Leu Phe Arg Glu Asn Phe Glu Lys Ser Phe Thr Val Met Glu
68                               230           235           240
69 Leu Val Lys Ile Ile Tyr Lys Asn Thr Pro Glu Asn Leu His Glu
70                               245           250           255
71 Met Ala Lys His Asn Leu Leu Leu His Leu Lys Lys Leu Glu Lys
72                               260           265           270
73 Glu Gly Lys Ile Phe Ser Asn Thr Asp Pro Asp Lys Lys Trp Lys
74                               275           280           285
75 Ala His Leu
80 <210> SEQ ID NO: 2
81 <211> LENGTH: 432
82 <212> TYPE: PRT
83 <213> ORGANISM: Homo sapiens
84 <220> FEATURE:
85 <221> NAME/KEY: misc_feature
86 <223> OTHER INFORMATION: Incyte ID No: 1881009CD1
87 <400> SEQUENCE: 2
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91   1           5           10           15
92 Ile Leu Glu Tyr Arg Ile Arg Thr Leu Asp Gly Ala Leu Glu Asn
93           20           25           30
94 Ala Gln Asn Leu Gly Tyr Gln Gly Ala Lys Phe Ala Trp Glu Ser
95           35           40           45
96 Ala Asp Ser Gly Leu Glu Val Cys Pro Glu Asp Ile Tyr Gly Val
97           50           55           60
98 Gln Glu Val His Val Asn Gly Ala Val Val Leu Ala Phe Glu Leu
99           65           70           75
100 Tyr Tyr His Thr Thr Gln Asp Leu Gln Leu Phe Arg Glu Ala Gly
101           80           85           90
102 Gly Trp Asp Val Val Arg Ala Val Ala Glu Phe Trp Cys Ser Arg
103           95          100          105
104 Val Glu Trp Ser Pro Arg Glu Glu Lys Tyr His Leu Arg Gly Val
105          110          115          120
106 Met Ser Pro Asp Glu Tyr His Ser Gly Val Asn Asn Ser Val Tyr
107          125          130          135
108 Thr Asn Val Leu Val Gln Asn Ser Leu Arg Phe Ala Ala Ala Leu
109          140          145          150
110 Ala Gln Asp Leu Gly Leu Pro Ile Pro Ser Gln Trp Leu Ala Val
111          155          160          165

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112 Ala Asp Lys Ile Lys Val Pro Phe Asp Val Glu Gln Asn Phe His
113                               170                175                180
114 Pro Glu Phe Asp Gly Tyr Glu Pro Gly Glu Val Val Lys Gln Ala
115                               185                190                195
116 Asp Val Val Leu Leu Gly Tyr Pro Val Pro Phe Ser Leu Ser Pro
117                               200                205                210
118 Asp Val Arg Arg Lys Asn Leu Glu Ile Tyr Glu Ala Val Thr Ser
119                               215                220                225
120 Pro Gln Gly Pro Ala Met Thr Trp Ser Met Phe Ala Val Gly Trp
121                               230                235                240
122 Met Glu Leu Lys Asp Ala Val Arg Ala Arg Gly Leu Leu Asp Arg
123                               245                250                255
124 Ser Phe Ala Asn Met Ala Glu Pro Phe Lys Val Trp Thr Glu Asn
125                               260                265                270
126 Ala Asp Gly Ser Gly Ala Val Asn Phe Leu Thr Gly Met Gly Gly
127                               275                280                285
128 Phe Leu Gln Ala Val Val Phe Gly Cys Thr Gly Phe Arg Val Thr
129                               290                295                300
130 Arg Ala Gly Val Thr Phe Asp Pro Val Cys Leu Ser Gly Ile Ser
131                               305                310                315
132 Arg Val Ser Val Ser Gly Ile Phe Tyr Gln Gly Asn Lys Leu Asn
133                               320                325                330
134 Phe Ser Phe Ser Glu Asp Ser Val Thr Val Glu Val Thr Ala Arg
135                               335                340                345
136 Ala Gly Pro Trp Ala Pro His Leu Glu Ala Glu Leu Trp Pro Ser
137                               350                355                360
138 Gln Ser Arg Leu Ser Leu Leu Pro Gly His Lys Val Ser Phe Pro
139                               365                370                375
140 Arg Ser Ala Gly Arg Ile Gln Met Ser Pro Pro Lys Leu Pro Gly
141                               380                385                390
142 Ser Ser Ser Ser Glu Phe Pro Gly Arg Thr Phe Ser Asp Val Arg
143                               395                400                405
144 Asp Pro Leu Gln Ser Pro Leu Trp Val Thr Leu Gly Ser Ser Ser
145                               410                415                420
146 Pro Thr Glu Ser Leu Thr Val Asp Pro Ala Ser Glu
147                               425                430

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152 &lt;210&gt; SEQ ID NO: 3

153 &lt;211&gt; LENGTH: 737

154 &lt;212&gt; TYPE: PRT

155 &lt;213&gt; ORGANISM: Homo sapiens

157 &lt;220&gt; FEATURE:

158 &lt;221&gt; NAME/KEY: misc\_feature

159 &lt;223&gt; OTHER INFORMATION: Incyte ID No: 2054065CD1

161 &lt;400&gt; SEQUENCE: 3

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162 Met Ala Asp Thr Gln Tyr Ile Leu Pro Asn Asp Ile Gly Val Ser
163 1 5 10 15
164 Ser Leu Asp Cys Arg Glu Ala Phe Arg Leu Leu Ser Pro Thr Glu
165 20 25 30
166 Arg Leu Tyr Ala Tyr His Leu Ser Arg Ala Ala Trp Tyr Gly Gly

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Input Set : A:\pf0738usn\_seqlist.txt

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167		35		40		45									
168	Leu	Ala	Val	Leu	Leu	Gln	Thr	Ser	Pro	Glu	Ala	Pro	Tyr	Ile	Tyr
169				50		55									60
170	Ala	Leu	Leu	Ser	Arg	Leu	Phe	Arg	Ala	Gln	Asp	Pro	Asp	Gln	Leu
171				65		70									75
172	Arg	Gln	His	Ala	Leu	Ala	Glu	Gly	Leu	Thr	Glu	Glu	Glu	Tyr	Gln
173				80		85									90
174	Ala	Phe	Leu	Val	Tyr	Ala	Ala	Gly	Val	Tyr	Ser	Asn	Met	Gly	Asn
175				95		100									105
176	Tyr	Lys	Ser	Phe	Gly	Asp	Thr	Lys	Phe	Val	Pro	Asn	Leu	Pro	Lys
177				110		115									120
178	Glu	Lys	Leu	Glu	Arg	Val	Ile	Leu	Gly	Ser	Glu	Ala	Ala	Gln	Gln
179				125		130									135
180	His	Pro	Glu	Glu	Val	Arg	Gly	Leu	Trp	Gln	Thr	Cys	Gly	Glu	Leu
181				140		145									150
182	Met	Phe	Ser	Leu	Glu	Pro	Arg	Leu	Arg	His	Leu	Gly	Leu	Gly	Gln
183				155		160									165
184	Glu	Gly	Ile	Thr	Thr	Tyr	Phe	Ser	Gly	Asn	Cys	Thr	Met	Glu	Asp
185				170		175									180
186	Ala	Lys	Leu	Ala	Gln	Asp	Phe	Leu	Asp	Ser	Gln	Asn	Leu	Ser	Ala
187				185		190									195
188	Tyr	Asn	Thr	Arg	Leu	Phe	Lys	Glu	Val	Asp	Gly	Glu	Gly	Lys	Pro
189				200		205									210
190	Tyr	Tyr	Glu	Val	Arg	Leu	Ala	Ser	Val	Leu	Gly	Ser	Glu	Pro	Ser
191				215		220									225
192	Leu	Asp	Ser	Glu	Val	Thr	Ser	Lys	Leu	Lys	Ser	Tyr	Glu	Phe	Arg
193				230		235									240
194	Gly	Ser	Pro	Phe	Gln	Val	Thr	Arg	Gly	Asp	Tyr	Ala	Pro	Ile	Leu
195				245		250									255
196	Gln	Lys	Val	Val	Glu	Gln	Leu	Glu	Lys	Ala	Lys	Ala	Tyr	Ala	Ala
197				260		265									270
198	Asn	Ser	His	Gln	Gly	Gln	Met	Leu	Ala	Gln	Tyr	Ile	Glu	Ser	Phe
199				275		280									285
200	Thr	Gln	Gly	Ser	Ile	Glu	Ala	His	Lys	Arg	Gly	Ser	Arg	Phe	Trp
201				290		295									300
202	Ile	Gln	Asp	Lys	Gly	Pro	Ile	Val	Glu	Ser	Tyr	Ile	Gly	Phe	Ile
203				305		310									315
204	Glu	Ser	Tyr	Arg	Asp	Pro	Phe	Gly	Ser	Arg	Gly	Glu	Phe	Glu	Gly
205				320		325									330
206	Phe	Val	Ala	Val	Val	Asn	Lys	Ala	Met	Ser	Ala	Lys	Phe	Glu	Arg
207				335		340									345
208	Leu	Val	Ala	Ser	Ala	Glu	Gln	Leu	Leu	Lys	Glu	Leu	Pro	Trp	Pro
209				350		355									360
210	Pro	Thr	Phe	Glu	Lys	Asp	Lys	Phe	Leu	Thr	Pro	Asp	Phe	Thr	Ser
211				365		370									375
212	Leu	Asp	Val	Leu	Thr	Phe	Ala	Gly	Ser	Gly	Ile	Pro	Ala	Gly	Ile
213				380		385									390
214	Asn	Ile	Pro	Asn	Tyr	Asp	Asp	Leu	Arg	Gln	Thr	Glu	Gly	Phe	Lys
215				395		400									405

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216 Asn Val Ser Leu Gly Asn Val Leu Ala Val Ala Tyr Ala Thr Gln
217                               410                               415                               420
218 Arg Glu Lys Leu Thr Phe Leu Glu Glu Asp Asp Lys Asp Leu Tyr
219                               425                               430                               435
220 Ile Leu Trp Lys Gly Pro Ser Phe Asp Val Gln Val Gly Leu His
221                               440                               445                               450
222 Glu Leu Leu Gly His Gly Ser Gly Lys Leu Phe Val Gln Asp Glu
223                               455                               460                               465
224 Lys Gly Ala Phe Asn Phe Asp Gln Glu Thr Val Ile Asn Pro Glu
225                               470                               475                               480
226 Thr Gly Glu Gln Ile Gln Ser Trp Tyr Arg Ser Gly Glu Thr Trp
227                               485                               490                               495
228 Asp Ser Lys Phe Ser Thr Ile Ala Ser Ser Tyr Glu Glu Cys Arg
229                               500                               505                               510
230 Ala Glu Ser Val Gly Leu Tyr Leu Cys Leu His Pro Gln Val Leu
231                               515                               520                               525
232 Glu Ile Phe Gly Phe Glu Gly Ala Asp Ala Glu Asp Val Ile Tyr
233                               530                               535                               540
234 Val Asn Trp Leu Asn Met Val Arg Ala Gly Leu Leu Ala Leu Glu
235                               545                               550                               555
236 Phe Tyr Thr Pro Glu Ala Phe Asn Trp Arg Gln Ala His Met Gln
237                               560                               565                               570
238 Ala Arg Phe Val Ile Leu Arg Val Leu Leu Glu Ala Gly Glu Gly
239                               575                               580                               585
240 Leu Val Thr Ile Thr Pro Thr Thr Gly Ser Asp Gly Arg Pro Asp
241                               590                               595                               600
242 Ala Arg Val Arg Leu Asp Arg Ser Lys Ile Arg Ser Val Gly Lys
243                               605                               610                               615
244 Pro Ala Leu Glu Arg Phe Leu Arg Arg Leu Gln Val Leu Lys Ser
245                               620                               625                               630
246 Thr Gly Asp Val Ala Gly Gly Arg Ala Leu Tyr Glu Gly Tyr Ala
247                               635                               640                               645
248 Thr Val Thr Asp Ala Pro Pro Glu Cys Phe Leu Thr Leu Arg Asp
249                               650                               655                               660
250 Thr Val Leu Leu Arg Lys Glu Ser Arg Lys Leu Ile Val Gln Pro
251                               665                               670                               675
252 Asn Thr Arg Leu Glu Gly Ser Asp Val Gln Leu Leu Glu Tyr Glu
253                               680                               685                               690
254 Ala Ser Ala Ala Gly Leu Ile Arg Ser Phe Ser Glu Arg Phe Pro
255                               695                               700                               705
256 Glu Asp Gly Pro Glu Leu Glu Glu Ile Leu Thr Gln Leu Ala Thr
257                               710                               715                               720
258 Ala Asp Ala Arg Phe Trp Lys Gly Pro Ser Glu Ala Pro Ser Gly
259                               725                               730                               735
260 Gln Ala
265 <210> SEQ ID NO: 4
266 <211> LENGTH: 108
267 <212> TYPE: PRT
268 <213> ORGANISM: Homo sapiens

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/070,634

DATE: 08/26/2002

TIME: 13:42:07

Input Set : A:\pf0738usn\_seqlist.txt

Output Set: N:\CRF3\08262002\J070634.raw

L:17 M:270 C: Current Application Number differs, Replaced Current Application Number

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date